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TED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/647,140

Applicant : Kater D. HAKE et al.

Filed : August 25, 2003

TC/A.U. : 1638

Examiner : To Be Assigned

Docket No. : 1760-297 Customer No. : 06449 Confirmation No. : 1047

INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant submits herewith information that the Office may wish to consider in examination of the subject application. Also attached is a Search Report/Written Opinion issued by the PCT in a co-pending related foreign application. Materials submitted for consideration are listed on the attached form PTO-1449. No action on the merits has been issued in the instant application, therefore Applicants believe that no fee is due. Should a fee be deemed necessary, the Office is authorized to charge any fee to deposit account no. 02-2135. A copy of this communication is enclosed for that purpose.

Applicants would like to bring the Examiner's attention to the references cited in the enclosed International Search Report and to the other references listed below, which also are listed in the accompanying Form 1449.

Chapman et al., <u>J. Am. Oil Chemists Soc</u>. 78:941-947 (2001) report the development of transgenic cotton plants with higher seed oleic acid levels by a targeted suppression of endogenous cottonseed FAD2 enzyme activity in the plants.

Cherry et al., "Food and Feeding Quality of Cottonseed,"

Cotton Physiology, the Cotton Foundation (1986) at 557-595, is a review article which provides an overview of the progress made in improving seed quality in cotton and information on the constituents of cottonseed of different varieties.

May, "Breeding Improvements - What does the future hold?", 14th Ann. EFS® Conference, June 11-13, 2001, suggests that seed oil can be used as an indirect selection criterion for enhanced cotton fiber yield. He reports, however, based on preliminary data, that the phenotypic correlations in the F2 generation of plants from a cross between high and low seed oil concentration parents, ACRI94216 and SureGrow 248, "revealed seed oil concentration was not highly correlated with the yield component or fiber quality traits."

U.S. Patent Nos. 5,723,765, 5,925,808 and 5,977,441 disclose genetic systems that can be used to control gene expression in plants.

In addition, Applicants would like to point out the National Cotton Variety Test data (Rayburn, 1989-2001), which are cited in the application. The published data for the year 2001 is included with this Information Disclosure Statement and is listed in the Form 1449 as an example of the type of data available to Applicants and discussed in the application (see Figures 1-3 and Examples discussing those Figures).

Respectfully submitted,

Ву

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Attorney for Applicants Registration No. 44,066

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Enclosure(s):

PTO Form 1449 w/References International Search Report

	Con	nplete if Known
INFORMATION DISCLOSURE STATEMENT BY APPRICANT	Application Number	10/647,140
	Filing Date	August 25, 2003
	First Named Inventor	Kater D. HAKE et al.
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Sheet 1 of 11	Attorney Docket Number	1760-297

			U.S. PATEN	T DOCUMENTS		
Examiner Initials*	Cite No.1	U.S. Patent Document Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
	1A	4,959,317		SAUER	09/25/1990	
-	1B	5,106,739		COMAI et al.	04/21/1992	
	1C	5,378,619		ROGERS	01/03/1995	
	1D	5,492,820		SONNEWALD et al.	02/20/1996	
	1E	5,530,196		FRALEY et al.	06/25/1996	
· · · · ·	1F	5,563,328		MITRA et al.	10/08/1996	
	1G	5,716,837		BARRY et al.	02/10/1998	
	1H	5,723,765		OLIVER et al.	03/03/1998	
	11	5,795,753		CIGAN et al.	08/18/1998	
	1J	5,850,019		MAITI et al.	12/15/1998	
	1K	5,856,177		GRULA et al.	01/05/1999	
	1L	5,917,127		WILLMITZER et al.	06/29/1999	
	1M	5,925,808		OLIVER et al.	07/20/1999	
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	10	5,977,441		OLIVER et al.	11/02/1999	
	1P	5,981,852		VAN ASSCHE et al.	11/09/1999	
	1Q	5,986,173		SMEEKENS et al.	11/16/1999	
	1R	R 6,025,542		SMEEKENS et al.	02/15/2000	
Examiner Signature				Date Considered		

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

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		1	U.S. PATEN	T DOCUMENTS		
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	18	6,051,753		COMAI et al.	04/18/2000	
	1T	6,057,493		WILLMITZER et al.	05/02/2000	
<u> </u>	1U	6,175,060	B1	LEFEBVRE et al.	01/16/2001	
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	21	2002/0170091	A1	LASSNER et al.	11/14/2002	
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	2J	EP	0 332 104	A2/A3	CIBA-GEIGY AG 09/13/1989	
	2K	EP	0 608 359	B1	E.I. DuPont De Nemours & Co. 08/03/1994	
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	2M	wo	97/06269	A1	Zeneca Limited 02/20/1997	
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	20	wo	98/11240	A2	B.C. Research Inc. 03/19/1998	
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	2Q	wo	00/63401	A1	Pioneer Hi-Bred International, Inc. 10/26/2000	
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	3A	wo	02/18538	A2	Soo-Hwan KIM 03/07/2002	
	3B	wo	02/097101	A1	Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften E.V. 12/05/2002	
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	3C	ABBOTT et al., "Simultaneous suppression of multiple genes by single transgenes. Down-regulation of three unrelated lignin biosynthetic genes in tobacco," <i>Plant Physiol.</i> 128:844-853, 2002.						
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		NON PATENT LITERATURE DOCUMENTS						
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	3P	CHERRY et al., "Food and feeding quality of cottonseed," <u>Cotton Physiology</u> , Chapter 37 pages 557-595, published by the Cotton Foundation, 1986.						
	3Q	CHUANG et al., "Specific and heritable genetic interference by double-stranded RNA in Arabidopsis thaliana," <i>Proc. Natl., Acad. Sci. USA</i> , 97:4985-4990, 2000.						
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	3T .	DANI, R.G., "Genetic improvement of seed oil content, following indirect selection for earliness and fibre yield in cotton (Gossypium hirsutum L.)," <i>Adv. Plant Sci.</i> , 12:479-492, 1999.						
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	3V	DHADIALLA et al., "New insecticides with ecdysteroidal and juvenile hormone activity," <i>Annu. Rev. Entomol.</i> , 43:545-569, 1998.						
	3W	DUDLEY et al., "Ninety generations of selection for oil and protein in maize," <i>Maydica</i> , 37:81-87, 1992.						
	3X	DUNWELL, J.M., "Transgenic approaches to crop improvement," J. Exp. Bot., 51:487-496, 2000.						
	3Y	EASTMOND et al., "Postgerminative growth and lipid catabolism in oilseeds lacking the glyoxylate cycle," <i>Proc. Natl. Acad. Sci. USA</i> , 97(10):5669-5674, 2000.						
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	4A	FEHR et al., "Backcross Method," In: <u>Principles of Cultivar Development,</u> Vol. 1, Chapter 28, Walter R. Fehr. pp. 360-376, (1987).						
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	5B	ADOKA et al., "Chloroplast transformation with modified accD operon increases acetyl-CoA arboxylase and causes extension of leaf longevity and increase in seed yield in tobacco," lant Cell Physiol., 43(12):1518-1525, 2002.							
	5C	MARTINEZ et al., "Ecdysone agonist inducible transcription in transgenic tobacco plants," Plant J., 19(1):97-106, 1999.							
	5D	MAY , O. L., "Breeding Improvements–What does the future hold?", 14 th Ann. EFS® Conference, June 11-13, 2001.							
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	5K	PETTIGREW, W.T., "Environmental effects on cotton fiber carbohydrate concentration and quality," <i>Crop Sci.</i> , 41:1108-1113, 2001.							
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STATEME	STATEMENT BY APPLICANT				Kater D. HAKE et al.	
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		NON PATENT LITERATURE DOCUMENTS							
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	50	REGIERER et al., "Starch content and yield increase as a result of altering adenylate pools in transgenic plants," <i>Nat. Biotechnol.</i> , 20:1256-1260, 2002.							
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	6A	SMIDANSKY et al., "Seed yield and plant biomass increases in rice are conferred by deregulation of endosperm ADP-glucose pyrophosphorylase," <i>Planta</i> , 216:656-664, 2003.						
	6B	STOUTJESDIJK et al., "hpRNA-mediated targeting of the arabidopsis FAD2 gene gives highly efficient and stable silencing," <i>Plant Physiol.</i> , 129:1723-1731, 2002.						
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	6M	WESSLER et al., "Genomic region from Gossypium hirsutum L. Encoding a plastid targeted carbonic anhydrase isoform (CAH2)," NCBI AF482951, 2002.						
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-	6Q	ZOU et al., "Modification of seed oil content and acyl composition in the brassicaceae by expression of a yeast sn-2 acyltransferase gene," <i>Plant Cell</i> , 9:909-923, 1997. ZOU et al., ""The arabidopsis thaliana TAG1 mutant has a mutation in a diacylglycerol acyltransferase gene," <i>Plant J.</i> , 19(6):645-653, 1999.						
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